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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,278	09/09/2003	Jun-Hyuk Lee	P56854	1391

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EXAMINER
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LAM, DUNG LE

ART UNIT	PAPER NUMBER
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2617

DATE MAILED: 04/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/657,278

Applicant(s)

LEE ET AL.

Examiner

Dung Lam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 1/13/06.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4,5 and 8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,5 and 8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 1 reads

"a first hub for intermediating data between the base station, the base station controller, the private packet data service node and the private authentication system, and for determining whether or not **the specific server address** is *the same* by using **the address information** contained in a Unicast Access Terminal Identifier (UATI) received from the terminals, and transmitting a connection request signal of the terminal to the base station controller in response to the address information being the same, the first hub having a specific server address".

2. There is insufficient antecedent basis for the bolded and underlined limitations in the claim.

3. Claim 1 is also rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear where **the specific server address** and **the address information** come from and what is being the same with the server address. For examination purpose, the examiner interprets this limitation in light of the specification as follows: "a first hub for intermediating data between the base station, the base station controller, the private packet data service node and the private authentication system; and the first hub has a means for determining whether or not **a specific server address** derived from a **destination address information** portion contained in a Unicast Access Terminal Identifier (UATI) received from the terminal is the same as a server address that is connected to the first hub, and transmitting a

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connection request signal of the terminal to the base station controller if the specific server address derived from the destination information being the same as a server address connected with first the hub.

a second hub connected to a public base station a public base station controller the data location register and a public network packet data service node; and while being connected to the first hub, the second hub receiving the connection request signal of the terminal to be transmitted in response to the destination address information not being the same as the network address of the first hub and transmitting the signal to the public network base station controller.

#### ***Information Disclosure Statement***

4. The Information Disclosure Statement submitted on 11/21/05 has been considered by the examiner (see attached PTO-1449 form).

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims **1, 2, 4 and 5** rejected under 35 U.S.C. 103(a) as being unpatentable over **McIntosh** (US Patent Number 2003/0139180) in view of **Stevens** (TCP/IP Illustrated Volume, p. 37-41).

6. Regarding **claim 1**, **McIntosh** teaches in Figures 1 and 2 a base station (168) for assigning a n ID which reads on UATI to each terminal of the public and private wireless networks to provide services of the high-speed wireless data system:

a base station controller (162) for performing different authentications for the terminals according to the public wireless network and the private wireless network to one of which each of the terminals belongs, assignment of an UATI to each of the terminals, management of a session for each of the terminals, and control of data transmitted to or received by each of the terminals;

a private authentication system (radius server 212) including an authentication database for authenticating the terminal of the private wireless network (120, [0038, 0067, 0068, 0077, 0092]); a data location register (144 and 156) having service information of the public wireless network terminal and information for receiving services from the private wireless network of the private wireless network terminal; and a hub for intermediating data between the base station ([0052, 0055, 0060, 0065, 0067, 0068, 0073]).

the base station controller (162), and the private authentication system (212), a private packet data service node for providing private wireless data services to the

terminal of the private wireless network a first hub for intermediating data between the base station the base station controller.

a private packet data service node for providing private wireless data services to the terminal of the private wireless network (128 of Fig. 2);

a first hub (NIB 124) for intermediating data between the base station, the base station controller, the private packet data service node and the private authentication system; and a second hub connected to a public base station a public base station controller the data location register and a public network packet data service node ([0052, 0055, 0060, 0065, 0067, 0068, 0073, 0077]); However, McIntosh does not explicitly teach that the first hub has a means for determining whether or not a specific server address derived from a destination address information portion contained in a Unicast Access Terminal Identifier (UATI) received from the terminal is the same as a server address that is connected to the first hub, and transmitting a connection request signal of the terminal to the base station controller if the specific server address derived from information being the same as a server address connected with first the hub; and while being connected to the first hub, the second hub receiving the connection request signal of the terminal to be transmitted in response to the address information not being the same as the network address of the first hub and transmitting the signal to the public network base station controller. Nonetheless this limitation is similar to the known concept of IP routing where the first/current hub determines whether the destination address has an address information derived from the terminal matches with the servers/hosts that is connected to the first hub. If it does then a connection request is

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sent directly to the host. Otherwise, the connection is routed to the second hub, which routes the connection to other components/BSC of the public network. In an analogous art, **Stevens** teaches that when a datagram is sent, if the destination is directly connected to the host or on a shared network then it is sent directly to the destination otherwise the host sends the datagram to a default router and let the router deliver the datagram to its destination (Page. 38-41). Therefore, it would have been obvious for one of ordinary in the art at the time of the invention to combine McIntosh's private and public communication system and Stevens's known in the art IP routing concept of routing a connection directly to the internal network if it has a matching address and send the connection to another hub if the address doesn't match to facilitate the routing process.

7. Regarding **claim 2, McIntosh and Stevens** teach a system according to claim 1, wherein McIntosh further teaches the base station and the base station controller assign an IP address for performing an IP telecommunication, and process data and signaling for the assigned address ([0052, 0055, 0060, 0065, 0067, 0068, 0073]).

8. Regarding **claim 4, and Stevens** teach a system according to claim 1, wherein McIntosh further teaches, in a case where the terminal of the private wireless network is also used in the public wireless network, the data location register stores terminal information of both the private wireless network and the public wireless network in the terminal and assigns the UATI of the private wireless network to the terminal when the

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terminal is located within a range of a predetermined base station ([0062, 0063, 0067, 0068, 0069, 0071]).

9. Regarding **claim 5, and Stevens** teach a system according to claim 1, wherein McIntosh further teaches that the data location register assigns the UATI of the private network to a corresponding terminal, when the terminal is located within a predetermined base station in a predetermined time zone ([0062, 0064]).

10. Regarding **claim 8, and Stevens** teach a system according to claim 1, wherein McIntosh further teaches that the private authentication system further has a database for authentication of the terminal of the public wireless network ([0061]).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1,2,4,5 and 8 have been considered but are moot in view of the new ground(s) of rejection.



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### **Conclusion**

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Lam whose telephone number is (571) 272-6497. The examiner can normally be reached on M - F 9 - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DL

  
**LESTER G. KINCAID**  
**SUPERVISORY PRIMARY EXAMINER**